

AUTHORS: SOV-98-58-9-17/21
Proskuryakov, B.V. and Stol'nikov, V.V., Doctors of Technical Sciences and ~~Borovoy, A.A.,~~ Engineer

TITLE: Hydraulic Engineering Works in Turkey (Gidrotekhnicheskoye stroitel'stvo v Turtsii)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 9, pp 48 - 50 (USSR)

ABSTRACT: The authors describe dams already existing in Turkey and those now under construction. Turkey's economic dependence on foreign capital is stressed. There are 4 diagrams and 1 photo.

1. Dams--Turkey 2. Economic conditions--Turkey

Card 1/1

NOVIKOV, I.T.; PAVLENKO, A.S.; SMIRNOV, M.S.; CHIZHOV, D.G.; LAVRENEENKO,
K.D.; NEKRASOV, A.M.; NOSOV, R.P.; TARASOV, N.Ya.; ZHIMERIN, D.G.
UGORETS, I.I.; DMITRIYEV, I.I.; DROBYSHEV, A.I.; YERMAKOV, V.S.;
SAPOZHNIKOV, F.V.; BOROVY, A.A.; BANNIK, V.P.; DASKOVSKIY, Ya.M.;
ROGOVIN, N.A.; PETROV, A.N.; MEL'NIKOV, B.V.; LATYSH, D.I.;
KONIN, F.P.; DYDYKIN, P.Ye.; BONDAREV, I.I.; GUMENYUK, D.L.;
POREGAYLO, K.M.

Ol'ga Sergeevna Kalashnikova; obituary. Elek.sta. 30 no.2:95
F '59. (MIRA 12:3)

(Kalashnikova, Ol'ga Sergeevna, 1914)

NEPOROZHNIY, P.S. (Moskva); BELYAKOV, A.A. (Moskva); RUSSO, G.A. (Moskva);
BOROVY, A.A. (Moskva); NIKRASOV, A.M. (Moskva); MILOSLAVSKIY,
N.A. (Moskva); ROKOTYAN, S.S. (Moskva); RAZGON, V.N., inzh.;
TSVERAVA, G.K., inzh. (g.Boksitogorsk)

Principal trends in over-all electrification. Elektrichestvo
no. 11:87-90 N '60. (MIRA 13:12)

1. Mosenergo (for Razgon).
(Electrification)

BOROVY, A.A.

New resolutions. Nauka i zhizn' 27 no. 4:8-10 Ap '60.

(MIRA 14:5)

(Saratov Hydroelectric Power Station)

BOROVOY, A.A., red.; LYUBCHENKO, B.M., inzh., red.; TOROPOV, L.N.,
red.; VORONIN, K.P., tekhn. red.

[Materials of the Scientific Technological Conference on Arch
Dams] Trudy Nauchno-tekhnicheskogo soveshchaniia po arochnym
plotinam, Moscow, 1959. Pod obshchei red. A.A.Borovogo. Mo-
skva, Gos.energ.izd-vo, 1961. 182 p. (MIRA 15:1)

1. Nauchno-tekhnicheskoye soveshchaniye po arochnym plotinam,
Moscow, 1959.

(Dams)

TIZDEL', R.R.; KARPYSHEV, Ye.S.; MOLOKOV, L.A.; KONYAROVA, L.P.;
PESTOVSKIY, K.N.; ZENKOV, M.V.; KIRICHENKO, N.I.; NEYSHTADT,
L.I.; MALYAROVA, I.Ye.; PIRTSKHALAYSHVILI, G.P.; KALAYKOVA,
N.I.; BELYY, L.D., doktor geol.-min. nauk; BOROVVOY, A.A.,
red.; GOTMAN, T.P., red.; LARIONOV, G.Ye., tekhn. red.

[Geology and dams]Geologiya i plotiny. Pod obshchei red. A.A.
Borovogo. Moskva, Gosenergoizdat, (Its Materialy po proektiro-
vaniu gidroenergeticheskikh uzlov. Seriya 2: Izyskaniia)
Vol.2. 1962. 151 p. (MIRA 15:9)

1. Moscow. Vsesoyuznyy gosudarstvennyy proyektnyy institut
"Gidroenergoproekt." 2. Vsesoyuznyy gosudarstvennyy proyekt-
nyy institut, Moscow (for all except Borovoy, Gotman,
Larionov).

(Geology) (Dams)

NOVIKOV, I.T.; NEPOROZHNIY, P.S.; GINZBURG, S.Z.; BELYAKOV, A.A.;
ERISTOV, V.S.; VOZNESENSKIY, A.N.; IVANTSOV, N.M.;
BOROVOY, A.A.; TERMAN, I.A.; ALEKSANDROV, B.K.;
YURINOV, D.M.; NOSOV, R.P.; MIKHAYLOV, A.V.; NICHIPOROVICH, A.A.;
ABELEV, A.S.; PROSKURYAKOV, B.V.; MENKEL', M.F.; KRITSKIY, S.N.;
BELYI, L.D.

Mikhail Evgen'evich Knorre. Gidr. stroi. 32 no.5: My '62.
(MIRA 15:5)
(Knorre, Mikhail Evgen'evich, 1876-1962)

*Borovoy, A.A.*S/056/63/044/004/009/044
B102/B186AUTHORS: Mikaelyan, L. A., Borovoy, A. A., Denisov, E. I.

TITLE: Double Mott scattering of electrons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
no. 4, 1963, 1162 - 1170

TEXT: The method of Mott scattering, which is most effective for determining the degree of polarization $\langle \sigma \rangle$ of electron beams, yields the value for the product $\langle \sigma \rangle S$. The discovery of parity non-conservation in weak interaction has raised interest in an accurate determination of S . P. Ye. Spivak et al. (ZhETF, 41, 1064, 1961) have measured S in the range 45 - 245 kev at the angle 120° . Continuing these investigations, the authors determined the angular dependence of S between 90 and 150° for the energies 63, 133, 170 and 245 kev. The experimental apparatus was constructed so that the accelerated electron beam focussed onto the first scatterer was scattered through 120° to fall perpendicularly onto the second scatterer around which a set of counters was arranged ($90, 105, 120, 135, 150^\circ$). In order to reduce the background of electrons scattered from the walls, the walls were lined with Plexiglas and the apparatus was

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Double Mott scattering of electrons

S/056/63/044/004/009/044
B102/B186

provided with electron traps. In all cases S was measured for several scatterers with different thicknesses and the results were extrapolated to zero thickness, thus eliminating multiple scattering effects. The relative depolarization was determined by measuring the energy dependence of $\alpha = (1/S)dS/dl$ between 45 and 300 kev. α drops rapidly with increasing E. $S(\theta)[P_{Au} - P_{Al}]$ was determined for all angles and all electron energies; θ is the angle of second scattering, P_{Au} and P_{Al} are the polarizations of the beams incident on gold and aluminum targets, respectively. In addition S was calculated according to Sherman (Phys. Rev. 103, 1601, 1956). The results are compared also with those of other authors.

		E, kev		
θ		245	170	63
	S_{th}	0.255	0.265	0.247
90°	S_{exp}	0.265 $\pm$ 4%	0.267 $\pm$ 5%	0.217 $\pm$ 6%
	S_{th}	0.401	0.359	0.273
150°	S_{exp}	0.389 $\pm$ 4%	0.345 $\pm$ 5%	0.237 $\pm$ 6%

Card 2/3

Double Mott scattering of electrons

S/056/63/044/004/009/044
B102/B136

There are 4 figures and 1 table.

ASSOCIATION: Institut atomnoy energii Akademii nauk SSSR (Institute of Atomic Energy of the Academy of Sciences USSR)

SUBMITTED: November 12, 1962

Card 3/3

KONYAROVA, L.P.; NEYSHTADT, L.I.; LYKOSHIN, A.G.; KARPYSHEV, Ye.S.;
BOROVY, A.A., red.; BELYY, L.D., doktor geol.-miner.
nau, red.; BUL'DYAYEV, N.A., tekhn. red.

[Geology and dams] Geologiya i plotiny. Pod obshchei red.
A.A.Borovogo. Moskva, Gosenergoizdat, Vol.3. 1963. 175 p.
(MIRA 17:3)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'nyy i nauchno-issledovatel'skiy institut "Gidroproyekt" im. S.IA.Zhuka.
2. Vsesoyuznyy proyektno-izyskatel'nyy i nauchno-issledovatel'skiy institut, Moscow (for Konyarova, Neyshadt, Lykoshin, Karpyshev).

KARPYSEV, Ye.S., kand. geol.-miner. nauk; BARANOVSKAYA, Ye.I.;
BOROVY, A.A., red.

[Geology and dams] Geologiya i plotiny. Moskva, Energiia,
Vol.4. 1964. 135 p. (MIRA 18:4)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-
issledovatel'skiy institut "Gidroproyekt" imeni S.Ya.Zhuk.

NEPOROZHNIY, P.S.; FINOGENOV, Ya.I.; LAVRENENKO, K.D.; VESELOV, N.D.;
SAVINYKH, A.I.; SAPOZHNIKOV, F.V.; SERDYUKOV, N.P.; CHUPRAKOV, N.M.;
NEKRASOV, A.M.; BOROVY, A.A.; KOTILEVSKIY, D.G.; STEKLOV, V.Yu.;
KULEBAKIN, V.S.; BOGDANOV, N.P.

Petr Ivanovich Voevodin, d. 1964; obituary. Elektrichestvo no.3:
90-91 Mr '65. (MIRA 18:6)

L 10997-66

ACC NR: AP6001978

SOURCE CODE: UR/0105/65/000/003/0090/0091

AUTHOR: Neporozhniy, P. S.; Finogenov, Ya. I.; Lavrenenko, K. D.; Veselov, N. D.; Savinykh, A. I.; Sapozhnikov, F. V.; Serdyukov, N. P.; Chuprakov, N. M.; Nekrasov, A. M.; Borovoy, A. A.; Kotilevskiy, D. G.; Steklov, V. Yu.; Kulebakin, V. S.; Bogdanov, N. P.

ORG: none

TITLE: Petr Ivanovich Voyevodin

SOURCE: Elektrichestvo, no. 3, 1965, 90-91

TOPIC TAGS: electric engineering personnel, political personnel

ABSTRACT: P. I. VOYEVODIN died on 25 November 1964; one of the oldest bolshevik-Leninists, he was a member of the CPSU already in 1899. He fought in the early battles of the revolution, was imprisoned and sent to Siberia in 1905. After the October Revolution he became an economic adviser to Lenin on matters pertaining to Siberia and the entire Soviet Union as well. He was active in planning and organizing GOELRO. In 1921 he was assigned to set up the new Russian cinema industry, later he turned to the problems of electrification: spreading Lenin's ideas, publishing books and periodicals on the subject. He was the first Soviet editor of "Elektrichestvo" and then the editor of "Elektrifikatsiya." He partici-

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UDC: 621.311

0001978

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parted in the International Power Conferences in Berlin 1930 and in Belgrade
1956. His entire life was devoted to faithful service in the interests of
the Communist Party; in 1964 he was duly awarded the Order of Lenin and
was named a Hero of Socialist Labor. Orig. art. has: 1 figure. [JPRS]
SUB CODE: 05, 09 / SUBM DATE: none

CC
Card 2/2

ACC NR: AP7007595

SOURCE CODE: UR/0104/66/000/006/0095/0096

AUTHOR: Chuprakov, N. M.; Borovoy, A. A.; Postnikov, N. A.; Malychev, A. A.;
Magidson, E. M.; Sin'chugov, F. I.; Zeylidzon, Ye. D.; Barchaninov, G. S.;
Yermolenko, V. M.; Vasil'yev, A. A.; Sokolov, N. I.; Ul'yanov, A. S.;
Fedoseyev, A. M.; Sarkisov, M. A.; Rokotyan, S. S.; Azar'yev, D. I.; Arson,
G. S.; Dubinskiy, L. A.; Zhulin, I. V.; Kolpakova, A. I.; Antoshin, N. N.
Krikunchik, A. B.; Kuchkin, M. D.; Preobrazhenskiy, N. Ye.; Reut, M. A.;
Kheyfits, M. E.; Sharov, A. N.; Yakub, Yu. A.; Gorbunov, N. I.; Shurmukhin,
V. A.; Beschinskiy, A. A.

ORG: none

TITLE: Boris Sergeyovich Uspenskiy (on his 60th birthday)

SOURCE: Elektricheskiye stantsii, no. 8, 1966, 95-96

TOPIC TAGS: hydroelectric power plant, electric engineering personnel

SUB CODE: 10

ABSTRACT: B. S. Uspenskiy was born in June 1906. He graduated from
the State Electric Machine Building Institute in 1928 as an electric
installation engineer. He worked in the State Electro-Technical Trust
for four years, then in the All-Union ElectroTechnical Union, where he
planned power construction units. Plans which he made up at that time
for the electrical portion of electrical stations and sub-stations are
still being used. He was involved in planning and installation of the
electrical portion of hydro-electric power stations and powerful pumping
stations in the Moscow-Volga Canal. During the war, he was in charge in
installation of the Krasnogorskaya Heat and Electric Power Station, the
planning of the Urals Hydro-Electric Power Station and other projects. Ho

Card 1/2

09281534

ACC NR: AP7007595

has been the author of thirty-three printed works, a great number of :
reviews, etc. Orig. art. has: 1 figure. [JPRS: 38,330]

Card 2/2

TELEPNEV, I.A.; BOROVY, A.F., polkovnik, redaktor; SRIBNIS, N.V.,
tekhnicheskiy redaktor

[Military topography; for soldiers and youths of premilitary age]
Voennaya topografiya; dlia soldat i doprisyvnikov. Moskva, Voen.
izd-vo Ministerstva obor. SSSR, 1956. 127 p. (MLRA 10:3)
(Military topography)

ACCESSION NR: AP4025099

S/0139/63/000/006/0162/0167

AUTHORS: Zuyev, V. Ye.; Kabanov, M. V.; Borovoy, A. G.

TITLE: Decay of light signals in scattering media. 1. Calculation results of single scattering in the direction of radiation

SOURCE: IVUZ. Fizika, no. 6, 1963, 162-167

TOPIC TAGS: single scattering, radiation source, mean free path, characteristic-curve, water-particle transmittivity

ABSTRACT: To determine the single scattering magnitude of D , a function of the cone angle of radiation source θ , given by

$$D = \frac{1}{2} \int_0^{\psi} \int_0^{\theta} \beta(\rho, \psi + \theta) d\psi d\theta.$$

where ψ - aperture of collector, $\rho = 2\pi a/\lambda$, a - particle radius, and λ - mean free path, has been determined for various values of ψ and θ . The characteristic-

Card 1/2

ACCESSION NR: AP4025099

curve expression for spherical water-particle transmittivity, and for values of P : $P \rightarrow 0$, $1 \leq P \leq 30$, and $P \geq 30$ have been used. The results of calculations were compared with existing experimental values and were found to be satisfactory. Orig. art. has: 12 equations, 3 figures, and 1 table.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete imeni V. V. Kuybyshova (Siberian Physicotechnical Institute, Tomsk State University)

SUBMITTED: 30May62

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 004

OTHER: 005

Card 2/2

ZUYEV, V.Ye.; KABANOV, M.V.; BOROVY, A.G.

Extinction of a light signal in a dispersive medium. Part 1. Izv. vys.
ucheb. zav.; fiz. no.6:162-167 '63. (MIRA 17:2)

1. Sibirskiy fiziko-tekhnicheskii institut pri Tomskom gosudarstvennom
universitete imeni Kuybysheva.

GLAGOLEVA, T.A., kand.tekhn.nauk; VERNER, V.V., inzh.; SOKOLOV, V.I.;
VTOROV, K.I.; BOROVY, A.I.; STROKOV, I.G.; DADIOMOV, M.S.,
inzh.; PETROVA, V.V., red.isd-va; BOROVSEV, N.K., tekhn.red.

[Norms (SN 81-60) for the electric lighting of construction
and assembling operations] Normy elektricheskogo osveshchenia
stroitel'nykh i montazhnykh rabot SN 81-60. Moskva, Gos.isd-vo
lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 18 p.
(MIRA 13:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitee po delam
stroitel'stva. 2. Moskovskiy institut okhrany truda Vsesoyuznogo
tsentral'nogo soveta profsoyuzov (for Glagoleva). 3. Spetsial'noye
konstruktorsko-naladochnoye byuro Glavmosstroya (for Verner, Soko-
lov, Vtorov, Borovoy, Strov). 4. Leningradskiy filial instituta
Orgenergostroy Ministerstva stroitel'stva elektrostantsiy SSSR
(for Dadiomov).

(Electric lighting)

L 05100-62 EWT(1)

ACC NR: AP6013235

SOURCE CODE: UR/0413/66/000/008/0030/0030

AUTHOR: Borovoy, A. I.

ORG: none

TITLE: A pulse shaper. Class 21, No. 180627 [announced by All-Union Electrical Engineering Institute im. V. I. Lenin (Vsesoyuznyy elektrotekhnicheskiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 30

TOPIC TAGS: pulse shaper, circuit design

ABSTRACT: This Author Certificate presents a pulse shaper. The shaper is made with a transformer, cores with rectangular hysteresis loops, diodes, and resistors (see Fig. 1). The design produces a stable pulse duration and reduces the duration of the fronts of the pulses formed from an alternating current line. Independent circuits are connected to the output windings of the power supply transformer. These independent circuits produce a magnetic reversal of the cores with the summation of currents of the required polarity through the diodes of the load. The output of the winding of one of the cores is connected through a diode to the input of a two-terminal load. The output of the winding of the other core

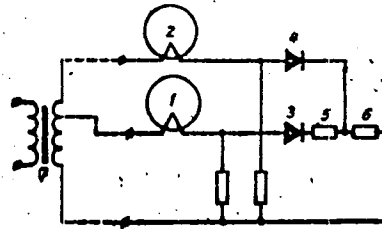
Card 1/2

UDC: 621.373.5

L 05100-67

ACC NR: AP6013235

Fig. 1. 1 and 2 - cores; 3 and 4 - diodes;
5 - load; 6 - secondary resistor;
7 - transformer



is connected to the second terminal of this two-terminal load and to the common resistor connected to the end of the transformer winding. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 04Aug64

Card 2/2 vmb

BOROVY, B., inzh.-tekhnolog

Vegetables and plants for shaping and decorating dishes.
Obshchestv.pit. no.3:19-21 Mr '60. (MIRA 13:6)
(Leningrad--Restaurants, lunchrooms, etc.)
(Vegetables)

9(2), 25(1), 28(1)

SOV/143-58-10-9/24

AUTHOR: Borovoy, B.V., Engineer

TITLE: A Generalized Calculation Method of Electric Peak Drives

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1958, Nr 10, pp 66-72 (USSR)

ABSTRACT: The so-called two-sectional, rectangular graph of the static moment is usually taken as the starting point for designing electric drives of forge-press machinery. Experimental investigations of forge-press machinery, performed in practice, revealed that the peak shape of the graph $M_c = f(t)$ is essentially different from the rectangular shape, being closer to the sinusoidal or triangular shape. For this reason it is necessary to explain the influence of graph shape $M_c = f(t)$ on the dynamic and thermal operation of the drive (asynchronous) motor, and the selection of basic drive parameters: rated moment M_n or the rated power P_n , rated slip S_n and the flywheel moment GD^2 . All further studies were based on a linear, mechanical char-

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SOV/143-58-10-9/24

A Generalized Calculation Method of Electric Peak Drives

acteristic of an **induction** motor. The magnitude of the maximum moment $M_{m \max}$ developed by a motor is of the greatest interest when investigating the dynamic operation conditions of an electric drive, since this magnitude determines the static motor stability and the maximum speed reduction during the operation. The author compared five possible versions of peak graph shapes: 1) two-sectional, rectangular; 2) sinusoidal; 3) shaped as an isosceles triangle; 4) shaped as a right-angled triangle, with impact moment rising towards the end; 5) shaped as a right-angled triangle, with impact moment dropping towards the end. The aforementioned five shapes are shown in figure 2. In all cases one and the same impact peak magnitude μ and identical durations t_1 were used. The author bases his investigation on the equation of motion, written in relative units:

$$\mu_a - \mu_c = - \frac{2\mu}{\pi^2}$$

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SOV/143-58-10-9/24

A Generalized Calculation Method of Electric Peak Drives

Under equal conditions, the flywheel masses required for a sinusoidal graph amount to 0.5 and those of the triangular graph to 0.35, 0.3 and 0.25 of the flywheel mass magnitude required for the rectangular graph. Using the latter in practice leads frequently to a unjustified increase of the flywheel magnitude. A considerable saving may be achieved when establishing the genuine impact load graph prior to selecting the flywheel masses. The author then investigates the thermal operating conditions of an electric drive, establishing graphically the magnitudes of the root-mean-square moment of the motor for each of the five aforementioned graphs. The author presents finally two calculation examples for selecting the proper motor for press drives. He expresses his gratitude to Doctor of Technical Sciences, Professor L.B. Geyler for a number of valuable suggestions concerning this paper.

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SOV/143-58-10-9/24

A Generalized Calculation Method of Electric Peak Drives

There are 7 graphs and 1 table.

· ASSOCIATION: Belorusskiy politekhnicheskiy institut (Belorussian Polytechnic Institute) Kafedra elektrifikatsii promyshlennykh predpriyatiy (Chair of Industrial Installation Electrification)

SUBMITTED: June 7, 1958

Card 4/4

BOROVY, B. V. Cand Tech Sci -- (diss) "Electric drive of forging-press
crank ^{gear} mechanisms." Minsk, 1959. 19 pp (Belorussian Polytechnic Inst im
I. V. Stalin), 150 copies (KL, 50-59, 126)

AUTHOR: Borovoy, B.V., Aspirant SOV/144-59-7-11/17
TITLE: The Selection of Motor Output for Electric Drives with Flywheels
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 7, pp 73-77 (USSR)
ABSTRACT: This is a mathematical article about the no-load torque in the graphs of static torque as a function of time, and the effect of the former on the r.m.s. torque of a motor. The two curves of torque as a function of time are shown in Fig 1; in one the initial torque is zero and in the other it is not. Expression (1) gives the r.m.s. torque of the motor when the no-load torque is allowed for, and expression (2) when it is not allowed for. Eq (7) is derived for the relationship between the equivalent torques in the two cases. A series of operating conditions are then assumed, and relative torque curves are calculated and plotted in Fig 2. Consideration of these graphs shows that there are regions in which the equivalent torque calculated with allowance for the initial torque is less than the corresponding value when the initial torque is not allowed for: yet consideration of Eqs (1) and (2) shows

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SOV/144-59-7-11/17

The Selection of Motor Output for Electric Drives with Flywheels

that the motor torque should always be greater when the initial torque is allowed for. It is concluded that limits of validity should be set to the curves plotted in Fig 2. These limitations are then calculated; the corresponding relative torques are given in the graphs of Fig 2 and the results of the torque calculations are tabulated. The parts of the curves in Fig 2 that can be used in practice are indicated by heavy lines. In Fig 3 curves are plotted of the r.m.s. torque ratio as a function of the ratio of the no-load torque to the maximum torque. The curves are described by Eq (16), which, after appropriate conversion, may be written in the form of Eq (17). This expression relates the equivalent torques of the motor, with and without allowance for the no-load torque, to the parameters of the graph of torque as a function of time. Formula (17) is more explicit than formula (7) and so is more convenient for practical engineering and design calculations.

Card 2/3

SOV/144-59-7-11/17

The Selection of Motor Output for Electric Drives with Flywheels

There are 3 figures, 1 table and 2 Soviet references.

ASSOCIATION: Belorusskiy politekhnicheskiy institut (Belorussian
Polytechnical Institute)

SUBMITTED: April 17, 1959

Card 3/3

BOROVY, F.P.

Lightening work in two-body hives
Pchelovodstvo, 29, no.7, 1952

BOROVY, G. A.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.;
BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVY, G.A.; BULEV, M.Z.; BURAKOV,
N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.;
GALAKTIONOV, V.D., kand. tekhn. nauk; GERKIN, Ye.M.; GIL'DENBLAT,
Ye.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODMS, E.G.;
GORBACHEV, V.N.; GRZHIB, B.V.; GREGULOV, L.F., kand. s.-kh. nauk;
GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO,
Ya.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZERLIK,
A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.;
KARANOV, I.F.; KNYAZEV, S.N.; KOLMGAYEV, N.M.; KOMAREVSKIY, V.T.;
KOSENKO, V.P.; KORMENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.;
KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.;
LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSEVICH, K.F.; MEL'NICHENKO,
K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk;
MUSIYVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.;
OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PERYSHKIN,
G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.;
ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.;
RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.;
SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY,
Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA,
Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.;
TSISHCHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN,
N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA,
I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.

Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATUNEE, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.N., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIROSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRZHKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSIN, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKANAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.R., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; RUSSO, G.A., kand. tekhn. nauk, red.; PILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER, (Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.

Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N.,
tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn.
red.

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and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'-
stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSim-
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(Volga Don Canal--Hydraulic engineering)

1. BOROVOL, G. Y A., Eng

2. USSR (600)

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inzh., retsentsent; KROKHIN, N.G., kand.tekhn.nauk, spetsred.;
RESH, G.S., red.; SOKOLOVA, I.A., tekhn.red.

[Technological designing for fat processing enterprises;
refining and hydrogenation of fats] Tekhnologicheskoe
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rafinatsiia i gidrogenizatsiia shirov. Moskva, Fishche-
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Боровой Л. Я.
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1. Giprozhir.

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(MIRA 14:11)

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zhirevoy, mylovarennoy, parfyumernoy i margarinovoy
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(Factories--Design and construction)

RUBTSOV, V.K., inzh.; BOROVYI, L.Ye., inzh.

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promyshlennosti.

(Pneumatic conveying—Safety measures)
(Oil cake) (Electrostatics)

GAVRILENKO, I.V., kand.tekhn.nauk; MATSUK, Yu.P., kand.tekhn.nauk;
KUZNETSOVA, N.N., inzh.; BOROVY, L.Ye., inzh.; Primali
uchastnye: SAUSHKINA, L.V.; IVANOVA V.F.; CHEKANOVA, S.V.;
TITOV, A.V.; DEMIN, I.V.

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Pointing out objects on desk maps. Geog. v shkole 20 no.6:55
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BOROVY N.Ya., kandidat tekhnicheskikh nauk; ANAN'YEVA, S.A., inzhener;
SOKOLOV, P.S., redaktor; VERINA, G.P., tekhnicheskii redaktor.

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vo, 1953. 213 p. [Microfilm] (MLBA 7:11)
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BOROVY, Natan Yefimovich; LEVSHIN, Ivan Konstantinovich; OBORIN, Nikolay
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perience of the Uzlovaya station no.1] Novoe v tekhnologii bez-
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(Uzlovaya--Railroads--Stations)

Богданов, Н.К.
 BENESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.H., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YER-SHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROPOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSEIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; ELIN, L.Ye., professor, doktor tekhnicheskikh nauk; YUZENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BERNGARD, K.A., kandidat tekhnicheskikh nauk; ~~BOGDANOV, N.K.~~ dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;
 (Continued on next card)

HEMESHEVICH, I.I.----(continued) Card 2.

VASIL'YEV, V.F.; GONCHAROV, N.G., inzhener; DERIBAS, A.T., inzhener; DOBROSEL'SKIY, K.M., dotsent, kandidat tekhnicheskikh nauk; DIUGACH, B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, H.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARZNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSIN, M.D.; KOCHNEV, P.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDVE, O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PETROV, A.P., professor, doktor tekhnicheskikh nauk; POBOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TALDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhener; USPENSKIY, V.K., inzhener; FELDMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhener; CHERNOMORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, H.F., inzhener; SHAFIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.F., dotsent kandidat tekhnicheskikh

(Continued on next card)

BENESHEVICH, I.I.-- (continued) Card 3.

nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K., inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, M.I., inzhener, redaktor; GEMRONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; ROBBL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii spravochnik zheleznodorozhnika. Moskva, Gos. transp.zhel-dor. izd-vo. Vol.10. [Electric power supply for railroads] Energoosnabzhenie zheleznykh dorog. Otv.red. toma K.G.Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Eksploataatsiia zheleznykh dorog. Otv. red. toma R.I.Robbl'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)
(Electric railroads) (Railroads---Management)

BOVOROV, Natan Yefimovich

POVOROZHENKO, Vladimir Vasil'yevich, doktor tekhn.nauk, prof.; PETRISHIN, Lev Leont'yevich, dotsent; STEFANOV, Nikolay Yakovlevich, dotsent; ~~BOVOROV, Natan Yefimovich~~, dotsent; GALATCHENKO, Nikolay Prokof'yevich, dotsent; TSAKENKO, A.P., inzhener, red.; BOEROVA, Ye.N., tekhn.red.

[Organization of traffic in railroad transportation] Organizatsiia dvizheniia na zheleznodorozhnom transporte. Pod obshchei red. V.V.Povorozhenko. Moskva, Gos.transp.zhel-dor.izd-vo, 1957. 362 p.
(MIRA 10:12)

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FERAPONTOV, Gennadiy Viktorovich; ~~BOBOVOY, N.Ye., red.~~; BOBROVA, Ye.N.,
tekhn.red.

[Railroad spur lines for specialized use] Zheleznodorozhnye
pod"ezdnye puti neobshchego pol'zovania. Moskva, Gos. transp.
zhel-dor. izd-vo, 1958. 227 p. (MIRA 12:1)
(Railroads)

BOROVY, N.Ye., kand.tekhn.nauk

Effect of increasing train weight on the volume of switching
operations in classification yards. Vest. TSNII MPS [17]
no.7:21-25 N '58. (MIRA 11:12)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta
imeni I.V.Stalina.
(Railroads--Switching) (Railroads--Yards)

~~BOBOVOY, N.Ye.~~ kand.tekhn.nauk

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transp. 40 no.9:57-61 S '58. (MIRA 11:10)
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BOROVY, N.Ye., kand.tekhn.nauk, dotsent

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(Railroads---Hump yards)

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BOROVY, N.Ye., red.; KHITROVA, N.A., tekhn.red.

[Experience in the transportation of farm produce] Opyt perevozok
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(Farm produce--Transportation)

BELOV, I.V., dotsent, kand.ekon.nauk; BOROVY, N.Ye., dotsent, kand.tekhn.
nauk; VINNICHENKO, N.G., dotsent, kand.ekon.nauk; RAYKHER, G.S.,
inzh.; KHANUKOV, Yevgeniy Davydovich, prof., doktor ekon.nauk;
KHOKHLOV, N.F., dotsent, kand.ekon.nauk; PESKOVA, L.N., red.;
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Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 298 p. (MIRA 14:3)

(Railroads--Finance)

SHAFIRKIN, Boris Isaakovich; NAUMOV, Petr Yevtikhiyevich; MALAKYAN,
S.M., inzh., retsenzent; MULYUKIN, F.P., inzh., retsenzent;
BOROVOY, N.Ye., kand. tekhn.nauk, red.; KHITROVA, N.A., tekhn.red.

[Planning of freight transportation] Planirovanie gruzovykh
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putei soobshchenia, 1961. 320 p. (MIRA 15:2)
(Railroads--Freight)

BOROVY, N.Ye., kand.tekhn.nauk, dotsent

Effect of train weight on the volume of maneuvering work at
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(Railroads--Hump yards)
(Railroads--Making up trains)

BOROVVOY, N.Ye., dotsent

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BOROVY, N. Ye., kand. tekhn. nauk, dotsent

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no. 168:94-116 '63. (MIRA 17:4)

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Simultaneous plotting of the plans for freight routing from
shipment points and technical processing stations. Vest.
TSNII MPS 23 no.7:49-53 '64. (MIRA 18:3)

1. Moskovskiy institut inzhenerov zheleznodorozhnogo transporta.

BELOV, Ivan Vasil'yevich, kand. ekon. nauk dots.; BOROVY, Natan
Yefimovich, kand. tekhn. nauk, dots.; VIRNICHENKO,
Nikolay Gavrilovich, kand. ekon. nauk, dots.; RAYKIN,
Grigoriy Solomonovich, inzh.; KHANUKOV, Yevgeniy Davidovich,
doktor ekon. nauk, prof.; KHOKHLOV, Nikolay Federovich,
kand. ekon. nauk, dots.; PESKOVA, L.N., red.

[Economics of railroad transportation] Ekonomika zhelezn-
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(MIRA 18:30)

BOROVY, N. Ye. dotsent, kand. tekhn. nauk

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SIVAYEV, Ivan Platonovich; BOROVY, N.Ye., red.

[Freight transportation in an economic region] Pere-
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port, 1965. 101 p. (MIRA 18:12)

BOROVY, S.

BOROVY, S.

Build well, rapidly and cheaply. Muk.elev.prom. 21 no.2:1-3
F '55. (MLRA 8:3)

1. Ministerstvo zagotovok SSSR.
(Building) (Granaries)

BOROVY, S. prof.

Valuable work on the history of banks and credit policy in
Russia ("State Bank and economic policy of the tsarist government,
1861 - 1892" by I. F. Gindin. Reviewed by S. Borovoi).
Den. i kred. 19 no. 3:91-93 Mr '61. (MIRA 14:3)
(Banks and banking) (Russia—Economy policy)
(Gindin, I.F.)

BOROVY, S.F., kandidat tekhnicheskikh nauk, dotsent; KARGALOV, N.I.,
kandidat tekhnicheskikh nauk, assistant.

Results of investigations of d.c. electric motors for switch drives.
Sbor.LIIIZHT no.151:342-351 '56. (MLRA 10:1)
(Railroads--Switches)

BOROVY, S.N., kand. tekhn. nauk, dots.

Use of electric cable in control lines by switch drive motors
in ratio to the basic electric parameters of the motors. Shor.
LIZHT no.161:232-246 '58. (MIRA 11:12)
(Electric cables) (Railroads--Switches)

ACC NR: AM6029833

Monograph

UR/

Borovoy, Sergey Nikolayevich (Docent, Candidate of technical sciences); Lapin, A.V. (Docent, Candidate of technical sciences); Chupyatov, I.N. (Docent, Candidate of technical sciences); Tyurmorezov, V.Ye (Docent)

Electric machines and power supply (Elektricheskiye mashiny i istochniki elektropitaniya) Moscow, Izd-vo "Transport", 1966. 355 p. illus., biblio. 8000 copies printed. Textbook for students at railroad engineering institutes.

TOPIC TAGS: electric generator, electric motor, electric transformer, semiconductor rectifier, selenium rectifier, rotary electric power converter, electromechanic converter, storage battery

PURPOSE AND COVERAGE: This book has been approved as a textbook by the Main Directorate of Education of the Ministry of Transportation USSR for students of railroad transportation at schools of higher education. The book deals with the theory, construction, and application of DC and AC electric machines in various branches of engineering. Information on the use of electric machines and supply sources in the fields of automation, telemechanics and communication of railroad transportation are given. Chemical sources of power (cells and storage batteries, automatic transistorized converters and power-generating units) are discussed. Part 1 was written by S. N. Borovoy; Parts 2-5 (excluding Chapters XXVII and XXVIII) by I. N. Chupyatov; Chapters XXVII and XXVIII (Part 5) and Part 6, by A. V. Lapin; and Part 7 by V. Ye. Tyurmorezov.

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UDC: 621.313+621.311.6

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S/594/61/000/000/002/011
D234/D303

AUTHORS: Borovoy, V.Ya. and Toma, I.K. (Moscow)

TITLE: Melting losses of bodies in a stream of gas with high supersonic speed

SOURCE: Soveshchaniye po teplo- i massoobmenu. Minsk, 1961. Tezisy dokladov i soobshcheniy (Dopolneniye), 22-23

TEXT: The authors consider the problem of motion of the melt in a liquid boundary layer formed on the surface of an axially symmetric rigid body in a high-temperature gas stream, in absence of chemical reactions, evaporation and boiling and at given distribution of the coefficients of heat loss and friction. An approximate solution of the problem can be obtained by representing the components of velocity and the temperature of the melt in the form of quadratic trinomials of the normal coordinate y . The coefficient of interpolated trinomials are found from the conditions on the external and internal boundary of the liquid layer and from the equa-

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Melting losses of bodies...

tions of motion, of continuity and energy represented in an integral form. The inertial terms in the equation of motion are neglected as they are small in comparison with the terms referring to viscosity. In determining the mass of substance removed from a surface unit (m), the temperature of the surface of the melt (T_0) and the thickness of the layer of melt (δ) the following system of equations is obtained:

$$\begin{aligned} \frac{1}{3} \frac{M_z}{2\pi r} \frac{dT_z}{dx} + mQ \left(1 + \frac{1}{12} \frac{mc\delta}{\lambda} \right) - \frac{\lambda}{\delta} \times \\ \times (T_z - T_*) \left(1 - \frac{1}{4} \frac{mc\delta}{\lambda} \right) = 0, \\ \frac{M}{2\pi r} = \frac{\partial^2}{\partial x^2} \left[\frac{\tau}{2} \left(1 + \frac{1}{3} \frac{\Delta \bar{p}}{1 - \Delta \bar{p}} \right) - \frac{1}{3} \delta \frac{\partial p}{\partial x} \right], \\ T_z = T_* + \frac{\delta}{2\lambda} (q + mQ). \end{aligned}$$

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Melting losses of bodies...

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Here M is the flow of liquid at the point x ($M = \int_0^x m 2\pi r dx$); λ ,

c , ν - heat conductivity, specific heat and viscosity of the melt;
 τ - friction stress at the boundary of separation of liquid and
 gaseous phase; $Q = i_* - i_\infty$ - melting heat, i.e. the difference
 between the specific heat content of the melt at melting tempera-
 ture and specific heat content of solid phase at infinity, q - spe-
 cific heat flow from the gas to the body (at the boundary of liquid
 and gaseous phase), $\Delta\bar{\mu} = (\mu_0 - \mu_\delta)/\mu_*$ (the index $*$ refers to mel-
 ting temperature, i.e. to the boundary of separation of liquid and
 gaseous phase; the index 0 to the surface of melt). Utilizing the
 Reynolds' analogy the following expression was obtained for the mag-
 nitude of δ in the vicinity of the critical point of the body:

$$\delta = \sqrt{3 \frac{i_* - i_\infty}{Q} \frac{\nu_*}{\frac{d\omega}{dx}} \frac{1}{Pr^{1/2}} \frac{1 - \frac{1}{4} \frac{mc\delta}{\lambda}}{1 + \frac{5}{12} \frac{mc\delta}{\lambda}}}$$

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Melting losses of bodies...

where ω is the velocity of gas at the external boundary of gaseous boundary layer, i_0, i_g - heat content of gas in the flow at braking temperature and at $T = T_g$ respectively. Results of numerical analysis show that in melting losses of materials with large heat conductivity and small viscosity of the melt (e.g. metals) the thickness of the liquid layer and the temperature drop on both sides of the layer are very small. In melting of materials with small heat conductivity and large viscosity of the melt (e.g. SiO_2) there is a considerable temperature drop on both sides of the liquid layer, and at comparatively small heat flows on the surface of the body the boiling temperature of the melt is reached. If the magnitude of specific heat flow towards the body is fixed, the specific heat content of the gas in the incident stream does not affect practically the quantity of substance which it carries away (as calculations have shown). In contrast to this, absolute dimensions of the body can sometimes affect essentially the quantity of melt carried away by the stream if the heat flow is fixed. [Abstracter's note: Complete translation]

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BOROVY, V.Ya., inzh.

Paper industry of European socialist countries. Bum.prom. 38
no.4:26-27 Ap '63. (MIRA 16:5)
(Communist countries--Paper industry)

S/258/63/003/001/016/022
E191/E135

AUTHOR: Borovoy V.Ya. (Moscow)

TITLE: On the similarity of temperature fields in an infinitely long cylinder with a steady-state withdrawal of mass at its base

PERIODICAL: Inzhenernyy zhurnal, v.3, no.1, 1963, 143-144

TEXT: The propagation of heat in an infinitely long cylinder is considered when heat is conducted to its end face. The cylindrical surface is insulated. Under the effect of the heat, the base of the cylinder disintegrates and the products of disintegration are continuously withdrawn. The disintegration temperature is given. The thermal properties of the material (thermal conductivity, density and specific heat) are strongly dependent upon the temperature. An expansion of the material takes place so that the initially cylindrical form is distorted. For example, when heating graphite to its temperature of sublimation its density diminishes by more than 15%. In a system of coordinates linked with the disintegration front, the cylinder

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On the similarity of temperature ...

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E191/E135

moves in the negative direction. It is shown that, for the case of the steady-state mass withdrawal, the quantities which describe the state of the cylinder depend only on the temperature and not on the rate of disintegration. When the thermal properties of the material are independent of its temperature, it is shown that a certain temperature function remains independent of the heat flow to the base of the cylinder. There is 1 figure.

SUBMITTED: June-22, 1962

Card 2/2

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